

Solar Taxiway Edge Light AV-70-L863 & L861T Avlite

Compliance

- FAA L-863B Certified Temporary Taxiway Light (FAA L-861T compliant photometrics and chromaticity)

Applications

- Taxiway edge light.

Features

- Cost Effective
 - Solar powered, no running costs.
 - Low ongoing maintenance costs.
- Easy Install
 - No trenching of cables.
 - No mains power.
- Reliable
 - No bulbs blown – ever.
 - Latest LED technology.
 - No moving parts.
- High Performance
 - Integrate into an Avlite runway lighting system.
 - Dusk-to-dawn or on demand operation.
- Optional Add Ons
 - Infrared output.
 - Radio control.
 - Mounting solutions.

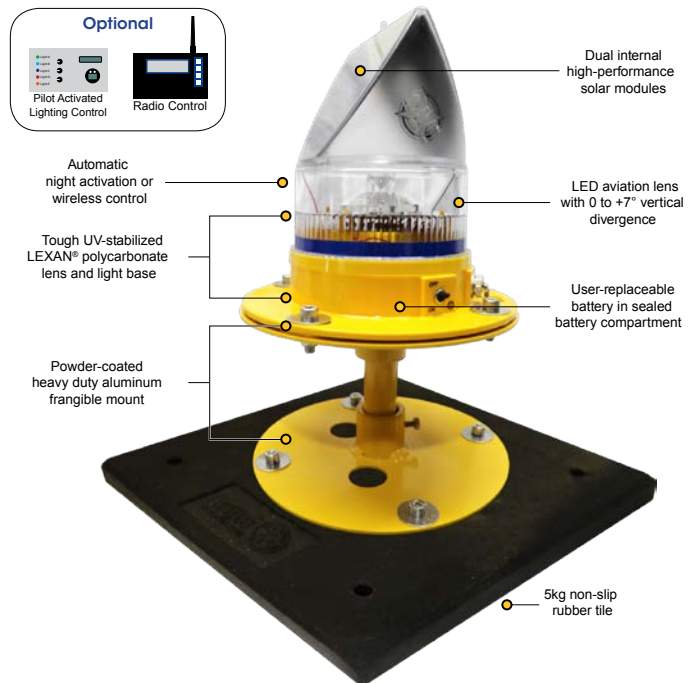
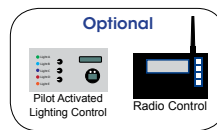
The FAA certified, self-contained solar taxiway light is a field proven alternative to wired fixtures during construction or unanticipated lighting outages. Certified to the L-863B (AC 150-5345-50B) standard, airports and engineers can fully utilize Airport Improvement Program funding for this innovative and cost-saving solution.

Available as an automatic dusk to dawn or wirelessly controlled light, the solar taxiway light system can seamlessly integrate into your existing operation. In conjunction with the Avlite AvMesh ALCMS interface, the lights can be commanded to mimic 3 or 5 step wired intensity without the need for a separate controller or command from the tower.

With upgraded high-performance solar panels and a user-replaceable NiMH battery, the lights and system can be expected to provide up to 12 years of service. Accessories include frangible mounting for concrete or grass applications, heavy duty rubber mounting tiles for temporary deployments, ALCMS wireless interface and charging stations for indoor storage.

AV-70-863/861T

The AV-70 is made from tough, durable UV stabilized LEXAN® polycarbonate, and incorporates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently.



Completely self-contained and able to be installed in minutes, the AV-70 is the preferred choice for marking of regional and mining airstrips and remote airfields globally.

Optional Radio Control

The AV-70-863/861T with RF is a radio-controlled version of the popular AV-70 series, which can be used in conjunction with a PALC, existing ALCMS or simple handheld controller. Users can wirelessly control ON/OFF functions, adjust light intensities or switch between visual and IR (tactical) operational modes if fitted.

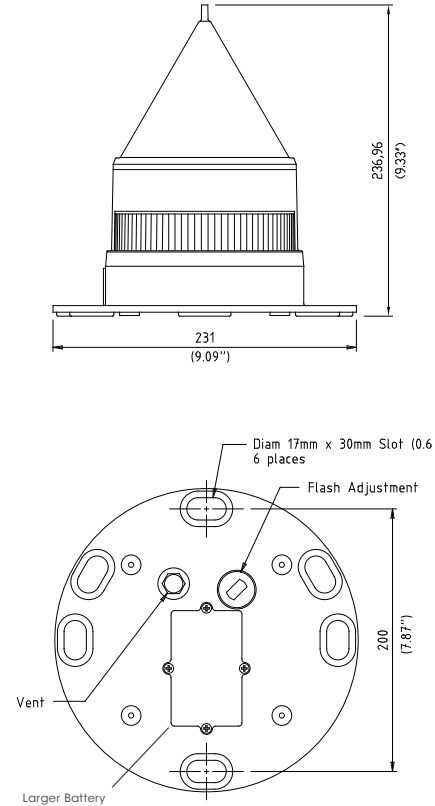
Technical Specifications **

	AV-70-863-B-XX	AV-70-861T-XX
Light Characteristics		
Light Source	LED	LED
Available colors	Blue	Blue
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	Per 863B	Per 861T
Intensity Adjustments	3 Steps - Low, Med, High †	3 Steps - Low, Med, High †
LED Life Expectancy (hours)	>100,000	>100,000
Electrical Characteristics		
Operating Voltage (V)	3.6	3.6
Temperature Range	-40 to 55°C	-40 to 55°C
Solar Characteristics		
Solar Module Type	Monocrystalline	Monocrystalline
Output (watts)	2.8 (2 x 1.4 watt)	2.8 (2 x 1.4 watt)
Solar Module Efficiency (%)	21	21
Charging Regulation	Microprocessor controlled	Microprocessor controlled
Power Supply		
Battery Type	High grade NiMH – Environmentally friendly	High grade NiMH – Environmentally friendly
Battery Capacity (Ah)	8.6 or 17.2	8.6 or 17.2
Nominal Voltage (V)	3.6	3.6
Autonomy (nights)	Steady-on: >14 to 19	Steady-on: >14 to 19
Radio Control		
Frequency	2.4GHz ISM Band	2.4GHz ISM Band
Range	Up to 1.4km relayed	Up to 1.4km relayed
Expandability	AvMesh®	AvMesh®
Compliance	FCC / CE	FCC / CE
Physical Characteristics		
Body Material	LEXAN® Polycarbonate – UV stabilized	LEXAN® Polycarbonate – UV stabilized
Lens Material	LEXAN® Polycarbonate – UV stabilized	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	140 / 5½"	140 / 5½"
Lens Design	Single LED optic	Single LED optic
Mounting	6 x 17mm holes on 200mm PCD	6 x 17mm holes on 200mm PCD
Height (mm/inches)	240 / 9½"	240 / 9½"
Width (mm/inches)	231 / 7¼"	231 / 7¼"
Mass (kg/lbs)	1.4 / 3½ or 5 lbs.	1.6 / 3½ or 5 lbs.
Product Life Expectancy	Up to 12 years	Up to 12 years
Environmental Factors		
Humidity	0 to 100%, MIL-STD-810F	0 to 100%, MIL-STD-810F
Icing	22kg per square inch	22kg per square inch
Wind Speed	Up to 160kph	Up to 160kph
Shock	MIL-STD-202G, Test Condition G, Method 213B	MIL-STD-202G, Test Condition G, Method 213B
Vibration	MIL-STD202G, Test Condition B, Method 204	MIL-STD202G, Test Condition B, Method 204
Certifications		
FAA	L-863B	
CE	EN61000-6-3:2007, 1:2007	EN61000-6-3:2007, 1:2007
Quality Assurance	ISO9001:2015	ISO9001:2015
Waterproof	IP68	IP68
Regulation	FAA, DGAC (Mexico)	DGAC (Mexico)
Compliance		
FAA	L863B Certified	L861T Compliant photometrics and chromaticity
FAA	Barricade AC 150/5370-2F	Barricade AC 150/5370-2F
FAA	LED Color Standard (Engineering Brief No. 67D)	LED Color Standard (Engineering Brief No. 67D)
Intellectual Property		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
Warranty *	3 year warranty • Manual Operation • Radio Controlled • Avlite Pilot Activated Lighting Control	3 year warranty • Manual Operation • Radio Controlled • Avlite Pilot Activated Lighting Control
Options Available	• IR LEDs • External ON/OFF Switch • External Battery Charging Port	• IR LEDs • External ON/OFF Switch • External Battery Charging Port

• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability



Technical Illustration



Ordering Information

